

### ABSTRACT OF THE DISCLOSURE

A method of in situ electrophoresis of biological samples has the steps of preparing a sample plate and a gel plate, applying reagent onto the gel plate, moving an applicator to the sample plate so as to receive a sample onto the applicator, moving the applicator toward the gel plate such that at least a portion of the sample is loaded onto the gel plate, electrophoresing the gel plate, staining the gel plate and scanning the stained gel plate so as to electronically analyze a band in the gel of the gel plate.